

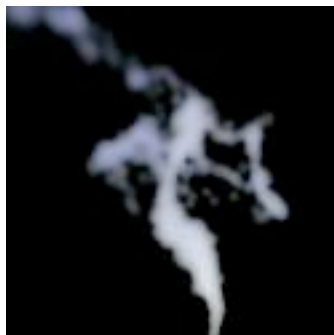
## *Chemical Properties*

- describes the ability of matter to change into different substances with different properties.

- Example

When wood is burned ash and smoke are created.

Smoke and ash both have different properties than wood.



## *Examples of Chemical Properties of Matter*

1. **Flammability**- the ability  
of a substance to burn and  
change into a new substance  
Paper, Wood, Cotton

= Flammable

Smoke, Ash, Water

= Non Flammable

2. **Reactivity** – the ability of  
two or more substances to  
combine and form a new  
substance.

Iron + Oxygen =

Rust(Reaction)

Chromium + Oxygen =

Chromium(No Reaction)

## **Chemical Vs. Physical** **Property**

**Chemical-** can only observe while you are changing the identity of the item.

Ex. Is Paper Flammable? We need to burn it and see. This changes paper into a new charred substance

**Physical** – can be observed without changing the identity of the substance.

Ex. Is metal a good or poor thermal conductor? We need to add heat but it still remains a metal.